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**UTILITY  
PATENT APPLICATION  
TRANSMITTAL**(Only for new nonprovisional applications under 37  
CFR 1.53(b))

Attorney Docket No.	66638/37453
First Inventor	Smith
Title	Signal-To-Noise Ratio Tuned Adaptive Optics Control
Express Mail Label No.	EV 328620166 US

**APPLICATION ELEMENTS**See MPEP chapter 600 concerning utility patent  
application contents.

1. ☐ Applicant claims small entity status.  
See 37 CFR 1.27.
2. ☒ Specification [Total Pages No. 22]  
(preferred arrangement set forth below)  
☒ Descriptive title of the invention  
☐ Cross Reference to Related Applications  
☐ Statement Regarding Fed sponsored R & D  
☐ Reference to sequence listing, a table,  
or a computer program listing appendix  
☒ Background of the Invention  
☒ Brief Summary of the Invention  
☒ Brief Description of the Drawings (if filed)  
☒ Detailed Description  
☒ Claim(s)  
☒ Abstract of the Disclosure
3. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets No. 3]
4. ☒ Oath or Declaration [Total Pages No. 2]  
a. ☒ Newly executed (original or copy)  
b. ☐ Unexecuted  
b. ☐ Copy from a prior application (37 CFR 1.63 (d))  
(for continuation/divisional with Box 18 completed)  
i. ☐ **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s)  
named in the prior application, see 37 CFR  
1.63(d)(2) and 1.33(b).

**ADDRESS TO:**Assistant Commissioner for Patents  
Box Patent Application  
P.O. Box 1450  
Alexandria, VA 22313-1450

5. ☐ CD-ROM or CD-R in duplicate, large table or  
Computer Program (Appendix)
6. Nucleotide and/or Amino Acid Sequence Submission  
(if applicable, all necessary)  
a. ☐ Computer Readable Form (CRF)  
b. Specification Sequence Listing on:  
i. ☐ CD-ROM or CD-R (2 copies); or  
ii. ☐ paper  
c. ☐ Statements verifying identity of above copies

**ACCOMPANYING APPLICATION PARTS**

7. ☒ Assignment Papers (cover sheet & document(s))
8. ☐ 37 CFR 3.73(b) Statement ☒ Power of Attorney (unexecuted)  
(when there is an assignee)
9. ☐ English Translation Document (if applicable)
10. ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations
11. ☐ Preliminary Amendment
12. ☒ Return Receipt Postcard (MPEP 503)  
(Should be specifically itemized)
13. ☐ Certified Copy of Priority Document(s)  
(if foreign priority is claimed)
14. ☐ Nonpublication Request under 35 U.S.C. 122  
(b)(2)(B)(i). Applicant must attach form PTO/SB/35  
or its equivalent.
15. ☒ Certificate of Express Mailing
16. ☒ Other: Checks for \$40.00 (assignment fee) and \$ 750.00 (filing fee)

17. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment,  
or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: \_\_\_\_\_  
Prior application information: Examiner \_\_\_\_\_ Group Art Unit: \_\_\_\_\_

**IF A CONTINUATION OR DIVISIONAL APPS ONLY:** The entire disclosure of the prior application, from which an oath or declaration is  
supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby  
incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted  
application parts.

**18. CORRESPONDENCE ADDRESS**

<input type="checkbox"/> Customer Number or Bar Code Label	 <b>21888</b> PATENT TRADEMARK OFFICE	or <input checked="" type="checkbox"/> Correspondence address below
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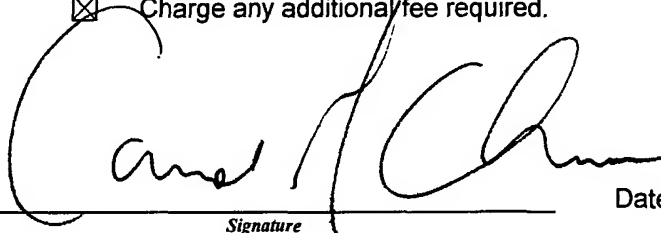
Name	Caroline G. Chicoine		Registration No. (Attorney/Agent)	38,198
Address	Thompson Coburn LLP			
	One US Bank Plaza			
City	St. Louis	State	MO	Zip Code 63101
Country	U.S.A.	Telephone	314-552-6499	Fax 314-552-7499

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should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: ASSISTANT  
COMMISSIONER for Patents, Box Patent Application, Washington, DC 20231.

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PATENT APPLICATION FEE DETERMINATION RECORD				Application or Docket Number 66638/37453	
CLAIMS AS FILED - PART I				SMALL ENTITY	OR OTHER THAN SMALL ENTITY
FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA		RATE	FEE
BASIC FEE (37 CFR 1.16(a))					\$ 0
TOTAL CLAIMS (37 CFR 1.16(c))	20	minus 20 = *	x \$	=	OR x \$ 18.00
INDEPENDENT CLAIMS (37 CFR 1.16(b))	2	minus 3 = *	x \$	=	OR x \$ 84.00
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(d))			+	=	OR + \$ 280.00=
* If the difference in column 1 is less than zero, enter "0" in column 2			TOTAL		OR TOTAL 750.00

- ☒ Checks in the amounts of \$40.00 (assignment fee) and \$750.00 (filing fee) are attached.
- ☒ The Commissioner is hereby authorized to charge and credit Deposit Account No. 20-0823 as described below. A duplicate copy of this sheet is enclosed.
- ☐ Charge the amount of \_\_\_\_\_ for the patent filing fee.
- ☒ Credit any overpayment.
- ☒ Charge any additional fee required.

  
Signature

Dated: June 25, 2003

Caroline G. Chicoine, Reg. No. 38,198  
Thompson Coburn LLP  
One US Bank Plaza  
St. Louis, Missouri 63101  
314-552-6499  
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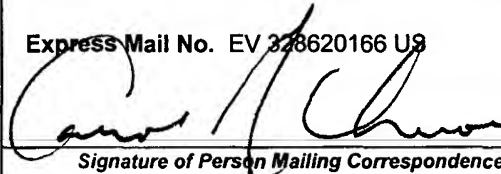


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Express Mail No. EV 328620166 U9

  
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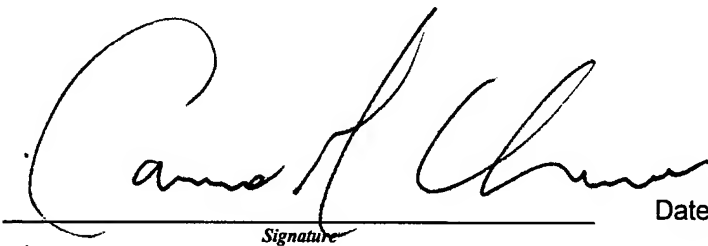
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Typed or Printed Name of Person Mailing Correspondence

**EXPRESS MAIL CERTIFICATE OF MAILING (37 CFR 1.10)****Express Mail No. EV 328620166 US**Docket No.  
66638/37453In Re Application Of:  
SmithSerial No.  
To be assignedFiling Date  
herewithExaminer  
unknownGroup Art Unit  
unknownTitle:  
Signal-To-Noise Ratio Tuned Adaptive Optics ControlTO THE COMMISSIONER OF PATENTS AND TRADEMARKS

Transmitted herewith is:

## Utility Patent Application Transmittal:

- ☒ Patent Application  
☒ Drawings: 3 Sheets ☒ Formal ☐ Informal;  
☒ Power of Attorney: ☐ Executed ☒ Not executed  
☒ Declaration: ☒ Executed ☐ Not executed  
☒ Assignment with Recordation Form  
☐ Information Disclosure Statement with References ( )  
☐ NonPublication Request under 35 U.S.C. 122(b)(2)(B)(i)  
☒ Postcard  
☒ Checks in the amounts of \$40.00 (assignment fee) and \$750.00 (filing fee) are attached

  
*Signature*

Dated: June 25, 2003

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*Signature of Person Mailing Correspondence*Caroline G. Chicoine  
Typed or Printed Name of Person Mailing Correspondence